

22226

21718

3 Hours / 70 Marks

Seat No.

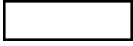



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- Instructions :**
- (1) All Questions are *compulsory*.
  - (2) Answer each next main Question on a new page.
  - (3) Illustrate your answers with neat sketches wherever necessary.
  - (4) Figures to the right indicate full marks.
  - (5) Assume suitable data, if necessary.
  - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.
  - (7) Preferably, write the answers in sequential order.

**Marks**

1. Attempt any FIVE of the following :

10

- (a) Define :
  - (i) Two dimensional array
  - (ii) Multi-dimensional array
- (b) Give any four advantages of pointer.
- (c) Define type casting. Give any one example.
- (d) State any four decision making statements.
- (e) State any four math functions with its use.
- (f) State the use of following symbols used for flowchart drawing :
  - (i) 
  - (ii) 
  - (iii) 
  - (iv) 
- (g) State use of while loop with syntax.

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P.T.O.

**2. Attempt any THREE of the following :****12**

- (a) Develop a simple 'C' program for addition and multiplication of two integer numbers.
- (b) Explain how to pass pointer to function with example.
- (c) Explain following functions :

`getchar( )`

`putchar( )`

`getch( )`

`putch( )`

with suitable examples.

- (d) Develop a program to accept an integer number and print whether it is palindrome or not.

**3. Attempt any THREE of the following :****12**

- (a) State the use of `printf( )` & `scanf( )` with suitable example.
- (b) Explain any four library functions under `conio.h` header file.
- (c) Explain how formatted input can be obtain, give suitable example.
- (d) Develop a program to find factorial of a number using recursion.

- 4. Attempt any THREE of the following :** **12**
- (a) Write a program to swap the values of variables  $a = 10$ ,  $b = 5$  using function.
  - (b) Develop a program using structure to print data of three students having data members name, class, percentage.
  - (c) Design a program to print a message 10 times.
  - (d) Draw a flowchart for checking whether given number is prime or not.
  - (e) Implement a program to demonstrate logical AND operator.
- 5. Attempt any TWO of the following :** **12**
- (a) Draw a flowchart of Do-while loop and write a program to add numbers until user enters zero.
  - (b) Give a method to create, declare and initialize structure also develop a program to demonstrate nested structure.
  - (c) Implement a program to demonstrate concept of pointers to function.
- 6. Attempt any TWO of the following :** **12**
- (a) Develop a program to swap two numbers using pointer and add swapped numbers also print their addition.
  - (b) Design a programme in C to read the  $n$  numbers of values in an array and display it in reverse order.
  - (c) Develop a program to find diameter, circumference and area of circle using function.
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